RIC 2004 New Reactors/Advanced Reactors Session W7

Department of Energy Initiatives Supporting COL Applications

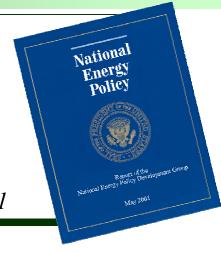
Thomas P. Miller
Acting Associate Director
Office of Nuclear Energy, Science & Technology
U.S. Department of Energy
March 10, 2004



The U.S. National Energy Policy and Nuclear Power

"The NEPD Group recommends that the President support the expansion of nuclear energy in the United States as a major component of our national energy policy."

Report of the National Energy Policy Development Group, May 2001



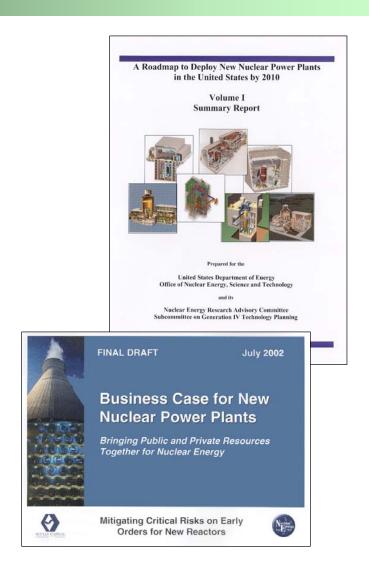


Selected Recommendations:

- Support uprating and relicensing existing nuclear power plants
- Support licensing new nuclear reactors
- Develop advanced nuclear fuel cycles and next generation technologies
- Reconsider advanced reprocessing and fuel treatment technologies

Barriers to New Nuclear Plants

- Nuclear Waste Disposal
- Accident Indemnification
- Commissioning Uncertainty
- High Initial Capital Investment
- **♦** Economic Competitiveness
 - Long construction durations
 - Deregulated market



Government Has Made Good Progress

Challenge	Action

- Establish Yucca Mountain Repository
- Extend Price-Anderson

Support New Nuclear Reactors

Economic Competitiveness

President has signed House Joint Resolution 87 allowing DOE to seek a license for Yucca Mountain

President signed Omnibus Bill to extend Price-Anderson coverage for an additional year, expect further extension in future energy legislation

DOE has launched the Nuclear Power 2010 Initiative, working with industry

Senate Energy Legislation proposed Production Tax Credits for first few nuclear plants

DOE Initiatives *Nuclear Power 2010*

- "Early Site Permit" (ESP) Demonstration Projects initiated
 - Three ESP applications filed for NRC approval
 - Dominion Energy North Anna
 - Entergy Grand Gulf
 - Exelon Clinton
 - TVA Site Suitability Study of new location on Bellefonte Site
- ◆ Generic Construction & Operating License (COL) project initiated -- EPRI/NEI
 - Develop COL application preparation guidance
 - Develop generic resolution of COL issues





DOE Initiatives

Nuclear Power 2010 (cont.)

♦ New Nuclear Plant Licensing Demonstration Projects

- Solicitation issued in November -- for proposals outlining a power company plan of activities leading to an order for and license to build a new nuclear power plant
 - Combined Construction and Operating License
 - Advanced Reactor Design Completion
 - Project Cost and Financial Analysis
 - Siting Analysis and Permits
- Pre-submission Briefing held on December 11, 2003
- Open Solicitation Period through December 2004